

**ABSTRACT**

A device for ablation of target tissue in the living body such as a tumor comprises an elongate member that can be guided over a guide element into the target tissue. The elongated element has an electrode at its distal portion. The electrode is configured to be energized with high frequency energy to ablate the target tissue. The elongate member has a guide hole through it and is configured to pass over a guide element that has perforated and penetrated the skin and tissue along a tract to the target volume. The elongate member can be made of a rigid metal tube or a flexible plastic tube. The elongate member can include a cooling channel within it so that cooling fluid can be circulated within the elongate member to cool the electrode, and thus to enlarge the ablation volume at the target tissue..

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